

2003
Virginia Department of Transportation
Daily Traffic Volume Estimates
Including Vehicle Classification Estimates
where available

Special Locality Report
116
City of Hopewell

Prepared By
Virginia Department of Transportation
Mobility Management Division

In Cooperation With
U.S. Department of Transportation
Federal Highway Administration

Virginia Department of Transportation
Mobility Management Division
Traffic Monitoring Section

The Virginia Department of Transportation (VDOT) conducts a program where traffic count data are gathered from sensors in or along streets and highways and other sources. From these data, estimates of the average number of vehicles that traveled each segment of road are calculated. VDOT periodically publishes booklets listing these estimates.

One of these booklets, titled "Average Daily Traffic Volumes with Vehicle Classification Data, on Interstate, Arterial and Primary Routes" includes a list of each Interstate and Primary highway segment with the estimated Annual Average Daily Traffic (AADT) for that segment. AADT is the total annual traffic estimate divided by the number of days in the year. This booklet also includes information such as estimates of the percentage of the AADT made up by 6 different vehicle types, ranging from cars to double trailer trucks; estimated Annual Average Weekday Traffic (AAWDT), which is the number of vehicles estimated to have traveled the segment of highway during a 24 hour weekday averaged over the year; as well as Peak Hour and Peak Direction factors used by planners to formulate design criteria.

In addition to the Primary and Interstate publication, one hundred books are published periodically, one for each of 100 areas across the state defined by VDOT for record-keeping purposes. These books include traffic volume estimates for roads within the county, cities, and towns within the area. These books are titled "Daily Traffic Volumes Including Vehicle Classification Estimates, where available; Jurisdiction Report numbers 00 through 99".

Also available are a number of reports summarizing the average Vehicle Miles Traveled (VMT) in selected jurisdictions and other categories of highways. There are many different ways to present traffic volume summary information. Because the user determines the value of each presentation, the reports have been redesigned based on user requests and feedback. The people at VDOT Mobility Management's Traffic Monitoring Section who produce these books welcome requests for other helpful ways of presenting the summary information.

A compact disc (CD) is available that includes files in the Adobe® Portable Document Format (PDF) that can be displayed, searched, and printed using common desktop computer equipment. The CD includes the publications described above as well as a number of other reports, including specialized VMT summaries and smaller AADT reports for each city and town separately.

Publication Notes

Parallel Roads

For road inventory and management purposes, some roadways are counted separately by direction and have separately published traffic estimates for each direction of travel. Examples of such roadways are the interstate system and routes with separated facilities and (usually) one-way traffic facilities in urban areas. In these publications, they are referred to as parallel roads. As a convenience for the users of the publication, the listing for segments of roads with parallel segments are published with both the traffic estimates for their own direction of travel (e.g. I-95 Northbound) as well as the estimate of the total of all traffic on the same route including parallel roadways (all directions of I-95). The publication will have a “Combined Traffic Estimates for Parallel Roadways on this Route” or “Combined Traffic” identifiers for the combined direction of travel estimates.

Roadways such as I-395 with a North segment, a South segment and a separate Reversible lane segment will have the estimate for more than two parallel roadways included in the entire combined traffic estimate.

Some routes have very complicated paths through cities and towns. These parallel paths may be too complex to allow a relationship between nearby sections of the opposite direction on the same route. In this case, to indicate that the traffic estimates for such a road segment may not include all directions of traffic on that route, the line that would list the combined values will indicate “NA” for not available.

VDOT’s traffic monitoring program includes more than 100,000 segments of roads and highways ranging from several mile sections of Interstate highways to very short sections of city streets. Due to problems experienced obtaining some traffic count data, and the level of quality necessary to maintain confidence in the data, no estimate is currently available for some segments of roadway. These segments are included in the publications indicating “NA” for not available. It is the intention of the VDOT’s Mobility Management Traffic Monitoring group to obtain the data necessary and to report traffic volume estimates on all road segments included in these publications.

Many of the road segments in this program are local secondary roads. The amount and detail of data collected on these roads are not as great as the data collected on higher volume roads. The vehicle classification, average weekday traffic volumes, and the theoretical design hour traffic volumes are not calculated for these roads. The publications indicate “NA” for the information that is not available.

This publication is based on a traffic monitoring program initiated in 1997. Because the data collection techniques and statistical evaluation processes are different than those used in previous years, comparison with previous publications may be misleading.

Glossary of Terms:

Route: The Route Number assigned to this segment of roadway with the master inventory route number if this is an overlapping route, with official street or highway name if available.

Length: Length of the traffic segment in miles.

AADT: Annual Average Daily Traffic. The estimate of typical daily traffic on a road segment for all days of the week, Sunday through Saturday, over the period of one year.

QA: Quality of AADT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- H Historical Estimate
- M Manual Uncounted Estimate
- N AADT of Similar Neighboring Traffic Link
- O Provided By External Source
- R Raw Traffic Count, Unfactored

4Tire: Percentage of the traffic volume made up of motorcycles, passenger cars, vans and pickup trucks.

Bus: Percentage of the traffic volume made up of busses.

2Axle Truck: Percentage of the traffic volume made up of 2 axle single unit trucks (not including pickups and vans).

3+Axle Truck: Percentage of the traffic volume made up of single unit trucks with three or more axles.

1Trail Truck: Percentage of the traffic volume made up of units with a single trailer.

2Trail Truck: Percentage of the traffic volume made up of units with more than one trailer.

QC: Quality of Classification Data:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- C Short Term Classified Traffic Count Data
- F Factored Short Term Traffic Count Data
- H Historical Estimate
- M Mass Collective Average
- N Classification Estimates of Similar Neighboring Traffic Link

K Factor: The estimate of the portion of the traffic volume traveling during the peak hour or design hour.

QK: Quality of the Peak Hour estimate:

- A Factor based on 30th Highest Hour Observed During at least 250 days of Continuous Traffic Data
- B Factor based on other Hour Observed During Less than 250 days of Continuous Traffic Data
- F Factor based on Highest Hour Collected at in a 48 Hour Weekday Period
- M Factor based on Manual Estimate of design hour
- N Peak Hour Factor of Similar Neighboring Traffic Link
- O Provided by External Source

Dir Factor: The estimate of the portion of the traffic volume traveling in the peak direction during the peak hour..

AAWDT: Average Annual Weekday Traffic. The estimate of typical traffic over the period of one year for the days between Monday through Thursday inclusive.

QW: Quality of AAWDT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- M Manual Uncounted Estimate
- N AAWDT of Similar Neighboring Traffic Link
- O Provided by External Source

Year: Year for which the published values are appropriate. If the Quality of AADT (QA) is "R", the year is the year that the raw traffic count was collected, and if available,

Route Shield Legend

Route Systems

North 	Interstate Route	Traffic volume data for Interstate Routes and some other routes are reported separately by direction, as well as combined.
	US Route	
	Virginia State Route	
	Secondary Route	

Special Routes

Bus 	Bus - Business Route
	Bypas - Bypass Route
	Truck - Truck Route
ALT 	ALT - Alternate Route
	Wve - Wye Route connector
	P - Parallel Route; Southbound or Westbound direction lanes of a numbered route where they are on a different road facility than the other direction.
	The VDOT Maintenance Jurisdiction number is displayed below the Secondary Route Number if the Maintenance Jurisdiction is different than the jurisdiction in the title of the report.

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City of Hopewell

Route		Length	AADT	QA	4Tire	Bus	Truck				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
							2Axle	3+Axle	1Trail	2Trail							
City of Hopewell																	
10	Randolph Rd	0.12	18000	G	From:	WCL Hopewell					F	0.081	F	0.509	20000	G	2003
					To:												
10	Randolph Rd	0.40	11000	G	From:	North 6th Ave					F	0.087	F	0.556	12000	G	2003
					To:												
10	Randolph Rd	0.74	11000	G	From:	Main St					F	0.082	F	0.605	12000	G	2003
					To:												
10	Randolph Rd	1.26	9500	G	From:	Winston Churchill Dr					F	0.085	F	0.628	11000	G	2003
					To:	ECL Hopewell											
36	Oaklawn Blvd	0.52	27000	G	From:	WCL Hopewell					F	0.085	F	0.522	29000	G	2003
					To:	74-630 Jefferson Park Rd											
36	Oaklawn Blvd	0.65	27000	G	From:	SR 36 Par					F	0.083	F	0.527	29000	G	2003
					To:												
36	Oaklawn Blvd	0.43	9900	G	From:	SR 36 Par					F	0.079	F		11000	G	2003
					Combined Traffic:					1%							
36	Winston Churchill Dr	0.60	20000	G	From:	SR 36 Par, Woodlawn St; Kenwood Ave					F	0.083	F	0.548	21000	G	2003
					To:												
36	Winston Churchill Dr	0.39	13000	G	From:	Miles Ave					F	0.083	F	0.56	13000	G	2003
					To:												
36	Winston Churchill Dr	0.25	12000	G	From:	SR 156 High Ave					F	0.083	F	0.657	13000	G	2003
					To:	SR 156; Arlington Rd											
36	Arlington Rd	0.12	2000	G	From:	SR 156 Winston Churchill Dr					F	0.088	F	0.571	2100	G	2003
					To:	15th Ave											
36	15th Avenue	0.77	6400	G	From:	Arlington Rd					C	0.095	F	0.573	6900	G	2003
					To:												
36	15th Avenue	0.22	2700	G	From:	City Point Rd					F	0.095	F	0.505	2900	G	2003
					To:	Broadway St											
36	Broadway St	0.44	8200	G	From:	15th Ave					F	0.090	F	0.661	8900	G	2003
					To:	6th Ave											
36	6th Avenue	0.31	11000	G	From:	Broadway St					F	0.085	F	0.637	11000	G	2003
					To:	SR 10 Randolph Rd											
36	Woodlawn St	0.61	13000	G	From:	SR 36 Oaklawn Blvd					C	0.079	F		14000	G	2003
					Combined Traffic:					1%							
36	Woodlawn St	0.35	9600	G	From:	Surry Ave					C	0.091	F		10000	G	2003
					Combined Traffic:					1%							
156	Arlington Rd	0.56	9600	G	From:	SR 36 Oaklawn Blvd; Kenwood Ave					F	0.083	F	0.551	10000	G	2003
					To:	SCL Hopewell											
156	High Ave	0.38	6600	G	From:	Berry Street					C	0.092	F	0.680	7100	G	2003
					To:	Winston Churchill Rd											
156	36 Winston Churchill	0.25	12000	G	From:	SRT 36					F	0.083	F	0.657	13000	G	2003
					To:	N RT 36											
156	Winston Churchill Rd	0.55	17000	G	From:	Arlington Rd					F	0.082	F	0.547	17000	G	2003
					To:	South 6Th Ave											

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Route		Length	AADT	QA	4Tire	Bus	Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
							2Axle	3+Axle	1Trail	2Trail							
City of Hopewell																	
156	Winston Churchill Dr	0.80	8300	G	From:	South 6Th Ave					F	0.084	F	0.541	8500	G	2003
					To:	Randolph Rd											
156	10 Randolph Rd	1.26	9500	G	From:	SRT 10					F	0.085	F	0.628	11000	G	2003
					To:	ECL Hopewell											
East 295	Combined Traffic:	3.30	17000	F	From:	NCL Hopewell					F	0.082	F		15000	F	2003
					To:	SCL Hopewell											
West 295	Combined Traffic:	3.30	18000	F	From:	NCL Hopewell					F	0.091	F		16000	F	2003
					To:	SCL Hopewell											
1	Perrymont St	0.34	3300	G	From:	Western St					C	0.092	F	0.636	3600	G	2003
					To:	Kippax Dr											
2	Kippax Dr	0.19	3400	G	From:	Perrymont St					C	0.093	F	0.560	3700	G	2003
					To:	Cedar Level Rd											
3	Old Iron Rd	0.42	3300	G	From:	SCL Hopewell					C	0.089	F	0.563	3600	G	2003
					To:	Courthouse Rd											
4	Jackson Farm Rd	0.61	2100	G	From:	Dead End near Pin Oak Dr					C	0.102	F	0.6	2300	G	2003
					To:	116-9047 Cedar Level Rd											
5	Western St	0.05	NA		From:	166-6 Barkley St; 116-9076						NA			NA		
					To:	116-1 Perrymont St											
6	Barkely St	0.13	30	G	From:	116-9076 Western St					F	0.206	F	0.65	40	G	2003
					To:	Woodlawn St											
6	Woodlawn St	0.39	490	G	From:	Barkley St					C	0.104	F	0.579	530	G	2003
					To:	116-9047 Cedar Level Rd											
9036	Danville St	0.03	1400	G	From:	South Mesa Dr					F	0.095	F	0.537	1600	G	2003
					To:	Miles Ave											
9036	Miles Ave	0.68	4100	G	From:	Danville Street					C	0.087	F	0.513	4400	G	2003
					To:	Oakland Blvd											
9036	Oaklawn Blvd	0.18	10000	G	From:	Miles Ave						0.085	F	0.547	11000	G	2003
					To:	Short Street											
9036	Oaklawn Blvd	0.40	NA		From:	SR 36						NA			NA		
					To:												
9038	River Rd	1.01	4100	G	From:	WCL Hopewell					C	0.102	F	0.624	4500	G	2003
					To:	South Mesa Dr											
9040	City Point Rd	0.75	4600	G	From:	North Mesa Dr					C	0.09	F	0.586	5000	G	2003
					To:	South 15Th Ave											
9040	City Point Rd	0.41	7000	G	From:	South 6Th Ave					F	0.089	F	0.564	7500	G	2003
					To:	Main St											
9040	City Point Rd	0.29	6200	G	From:						F	0.095	F	0.540	6800	G	2003
					To:												

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City of Hopewell																	
9040	Main St	0.13	3300	G	From:	City Point Rd				C	0.108	F	0.529	3600	G	2003	
					To:	Randolph Rd											
9042	West Broadway St	0.39	NA		From:	Colonial Dr					NA			NA			
					To:	116-9047 N Mesa Dr											
9042	West Broadway St	0.55	7900	G	From:	North Mesa Dr				C	0.091	F	0.622	8500	G	2003	
					To:	North 21St Ave											
9042	West Broadway St	0.13	6300	G	From:	North 15Th Ave				F	0.095	F	0.666	6900	G	2003	
					To:	North 6Th Ave											
9042	West Broadway St	0.36	4500	G	From:	Randolph Rd				C	0.095	F	0.644	4900	G	2003	
					To:	Cedar Ln											
9043	Courthouse Rd	0.95	5900	G	From:	Ashland Ave				C	0.088	F	0.502	6400	G	2003	
					To:	Berry St											
9043	Berry St	0.29	6000	G	From:	Courthouse Rd				C	0.086	F	0.53	6400	G	2003	
					To:	Arlington Rd											
9043	Arlington Rd	0.12	4400	G	From:	High Ave				F	0.078	F	0.579	4700	G	2003	
					To:	Freeman St											
9043	Arlington Rd	0.38	5300	G	From:	Winston Churchill Dr				C	0.077	F	0.617	5700	G	2003	
					To:												
9045	High Ave	0.09	2600	G	From:	Winston Churchill Dr				C	0.089	F	0.542	2800	G	2003	
					To:	Oaklawn Blvd											
9047	Ashland St	0.06	NA		From:	116-9043 Courthouse Rd					NA			NA			
					To:	SR 36 Oaklawn Blvd											
9047	Ashland St	0.10	5200	G	From:	SR 36-P Woodlawn St				F	0.098	F	0.684	5600	G	2003	
					To:	116-6 Cedar Level Rd Western St											
9047	Ashland St	0.10	7500	F	From:	Western St				C	0.092	F	0.503	8200	F	2003	
					To:	116-2 Kippax Dr											
9047	Cedar Level Rd	0.89	8000	G	From:	116-4 Jackson Farm Rd				C	0.081	F	0.521	8700	G	2003	
					To:	116-4; Cedar Level Rd											
9047	Jackson Farm Rd	0.27	7100	G	From:	S Mesa Dr				C	0.093	F	0.525	7700	G	2003	
					To:	Jackson Farm Rd											
9047	S Mesa Dr	0.46	6400	G	From:	116-9038 River Rd				C	0.088	F	0.552	6900	G	2003	
					To:												
9047	N Mesa Dr	0.23	11000	G	From:	166-9040 City Point Rd				F	0.090	F	0.610	7300	G	2003	
					To:	116-9042 Broadway St											
9049	South 6Th Ave	0.52	10000	G	From:	Winston Churchill Dr				C	0.086	F	0.578	11000	G	2003	
					To:	City Point Rd											
9049	North 6Th Ave	0.15	8600	G	From:	West Broadway St				C	0.082	F	0.611	9300	G	2003	
					To:												

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2Axle 3+Axle 1Trail 2Trail																
City of Hopewell																
(9051) North 21St Ave	0.53	4500	G	From:	West Broadway St				C	0.085	F	0.576	4900	G	2003	
				To:	Riverside Ave											
(9051) Riverside Ave	0.32	3800	G	From:	North 21St Ave				C	0.093	F	0.647	4100	G	2003	
				To:	Randolph Rd											
(9074) City Point Rd	0.14	3900	G	From:	Main St				C	0.098	F	0.509	4300	G	2003	
				To:	Randolph Rd											
(9076) Cousins Ave	0.17	4600	G	From:	SR 36 Oaklawn Blvd				F	0.091	F	0.619	4900	G	2003	
				To:	Western St											
(9076) Western St	0.50	4500	G	From:	Cousins Ave				C	0.092	F	0.609	4900	G	2003	
				To:	116-6 Barkey St; 116-5 Western St											
Atlantic St		790	G	From:	20Th Ave					0.104	F		860	G	2003	
				To:	21St Ave											
Barkley St		30	G	From:	Woodlawn St					0.16	F		40	G	2003	
				To:	Western St											
Broadway St		3100	G	From:	Randolph Rd					0.086	F		3400	G	2003	
				To:	Hopewell St											
Camron Road		20	F	From:	Dead End					0.25	F	0.5	20	F	2003	
				To:	Atwater Rd											
Cloverdale Ave		150	G	From:	Arcadia Ave					0.131	F		160	G	2003	
				To:	Delrose Dr											
Courthouse Rd		440	G	From:	Sibyl St					0.079	F		480	G	2003	
				To:	Caroline Ave											
Davidson Ave		70	G	From:	Peterson Mill Rd					0.152	F		80	G	2003	
				To:	Glendale St											
Day St		40	G	From:	20Th Ave					0.279	F		40	G	2003	
				To:	16Th Ave											
Dellrose Drive		290	F	From:	Cloverdale Ave				C	0.085	F	0.56	290	F	2003	
				To:	Lincoln Sq											
Dinwiddie Avenue		740	F	From:	Gilbert St				C	0.113	F	0.629	740	F	2003	
				To:	Courthouse Rd											
Fisher Avenue		100	F	From:	Glendale St					0.142	F	0.6	100	F	2003	
				To:	Lee Ln											
Granby St		260	F	From:	Roanoke Ave					0.118	F		280	F	2003	
				To:	Sunnyside Ave											
Jackson St		250	G	From:	21St Ave					0.135	F		270	G	2003	
				To:	20Th Ave											
Marion Ave		360	G	From:	West Broadway St					0.102	F		380	G	2003	
				To:	Norton St											

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City of Hopewell																
Maryland Avenue		280	F	From:	Atlantic St				C	0.132	F	0.537	280	F	2003	
				To:	15th Ave											
Prince George Ave		200	G	From:	Day St					0.114	F	0.528	210	G	2003	
				To:	West Broadway St											
Riverside Avenue		40	F	From:	Weston St				C	0.156	F	0.714	40	F	2003	
				To:	Marks St											
Stewart Ave		310	G	From:	Bassett St					NA			320	G	2003	
				To:	Jones St											
Sussex Drive		220	F	From:	Dead End				C	0.101	F	0.591	220	F	2003	
				To:	Westhill Rd											
Terminal Street		1200	F	From:	SR 156 Winston Churchill Dr				C	0.097	F	0.568	1200	F	2003	
				To:	Booker St											
Wilmington Avenue		250	F	From:	Heretick Ave					0.108	F	0.571	250	F	2003	
				To:	North Ave											